

541, 057

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau(43) International Publication Date  
26 August 2004 (26.08.2004)

PCT

(10) International Publication Number  
**WO 2004/073034 A2**

- (51) International Patent Classification<sup>7</sup>: **H01L**
- (21) International Application Number:  
PCT/US2004/003878
- (22) International Filing Date: 11 February 2004 (11.02.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
- |                |                               |    |
|----------------|-------------------------------|----|
| 60/446,979     | 12 February 2003 (12.02.2003) | US |
| 60/446,978     | 12 February 2003 (12.02.2003) | US |
| PCT/US03/26356 | 22 August 2003 (22.08.2003)   | US |
| PCT/US03/40801 | 19 December 2003 (19.12.2003) | US |

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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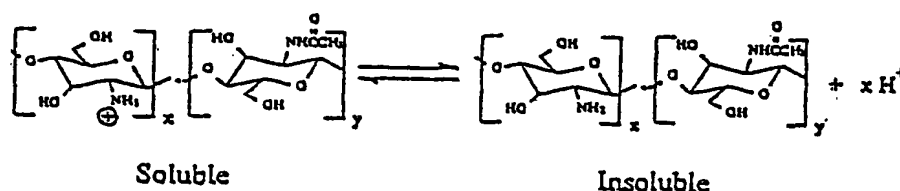
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Published:

— without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: CONTROLLED ELECTROCHEMICAL DEPOSITION OF POLYSACCHARIDES, FILMS AND HYDROGEL AND MATERIALS FORMED THEREFROM



(57) Abstract: A method is provided for electrochemically depositing a polysaccharide mass having a selected physical state. According to an embodiment, an electrically conductive support of a substrate is contacted with an aqueous solution including a selectively insolubilizable polysaccharide, and the selectively insolubilizable polysaccharide is electrochemically deposited on the electrically conductive support while controlling deposition conditions to form the polysaccharide mass having the selected physical state, such as that of a hydrogel. Deposition may be performed in a spatially and/or temporally controlled manner.

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